## PATENT COOPERATION TREATY

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference

R-55

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International and its at		550 1 65 M 1 61/11			O			
International application No. PCT/JP2004/005817			International filing date 22.04	(day/month/year) • 2004	Priority date (day/mont			
International Patent Classification (IPC) or national classification and IPC Int.Cl. B21C23/00, 23/14, B23K20/12, F17C1/14, H01M8/04								
Applicant SHOWA DENKO K.K.								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.  2. This REPORT consists of a total of3 sheets, including this cover sheet.  3. This report is also accompanied by ANNEXES, comprising:  a. \[ \times \] a total of sheets, as follows:  \[ \times \] sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  \[ \times \] sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.  b. \[ \times \] a total of (indicate type and number of electronic carrier(s))								
Г	Box No. VI Box No. VII Box No. VIII	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Certain documents cited  Certain defects in the international application  Certain observations on the international application						
22.11.2004			Date of completion of this report  04.04.2005					
Name and mai	Name and mailing address of the IPEA/JP			Authorized officer		4E	9832	
Japan Patent Office			YASUNORI TOMINAGA					
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan			Telephone No. +81-3-3581-1101 Ext. 3425					

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTARILITY

International application No.
PCT/JP2004/005817

Box No.	Basis of the report							
1. With	rwise indicated under this item.	international application in the language in which it was filed, unle	±SS					
, ,	This report is based on translations from the origina	al language into the following language	,					
	which is the language of a translation furnished	for the purposes of:						
		international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4)						
	international preliminary examination (under							
2. With	regard to the elements of the international applic	ation, this report is based on (replacement sheets which have be	en					
furn	ished to the receiving Office in response to an invitat	ion under Article 14 are referred to in this report as "originally file	d"					
ana	are not annexed to this report):							
Ⅳ	the international application as originally filed/fur	mished .						
_	the description:							
•	pages	as originally filed/furnish	ad.					
•	pages*	received by this Authority on	Cu					
. =	pages*	received by this Authority on						
	the claims:							
	pages	as originally filed/furnish	a-d					
	pages*	as amended (together with any statement) under Article						
	pages*	received by this Authority on						
	pages*	received by this Authority on						
	the drawings:		•					
	pages	as originally filed/furnish	eđ					
	pages*	received by this Authority on	-					
	pages*	received by this Authority on						
_		•						
Г	a sequence listing and/or any related table(s) - see	Supplemental Box Relating to Sequence Listing.	•					
3. 厂	The amendments have resulted in the cancellation							
J. ,		or:						
	P 4							
	the claims, Nos.							
•	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to sequence listing (spe	cify):						
4.	This report has been established as if (some of) the made, since they have been considered to go bey (Rule 70.2(c)).	e amendments annexed to this report and listed below had not be ond the disclosure as filed, as indicated in the Supplemental Bo	en OX					
	the description, pages	· · · · · · · · · · · · · · · · · · ·						
	T the claims No.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to sequence listing (spe-	cify).						
* If item	4 applies, some or all of those sheets may be marked							
Free, same of an of most success may be marked superseded."								

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/005817

Box No	. V Reasoned statement und citations and explanatio		55(2) with regard to novelty, inventive step or industrial applicabiling such statement	lity;
1. Sta	tement			
Novelty (N)		Claims Claims	1-29	_ YES _ NO
Inventive step (IS)		Claims Claims	1-29	_ YES _ NO
	Industrial applicability (IA)	Claims Claims	1-29	_ YES NO
D1:0 D2:0 D3:0 D4:0 TECH D5:0	JP 11-172387 A (FUF JP 2001-32058 A(H JP 2003-64458 A( HNOLOGY) 2003.03. JP 10-160097 A(BOE S 5697511 A & CA	NGK INS RUKAWA T ITACHI NATION 05, WHO ING NOF 2215121	SULATORS LTD) 2003.01.15, CLAIMS ELECTRIC CO LTD) 1999.06.29, WHOLE DOO METALS LTD) 2001.02.06, WHOLE DOCUMENT OLE DOCUMENT RTH AMERICAN INC) 1998.06.16, CLAIMS, I A & EP 833097 A2 & CN 1184905 A DRS LTD) 1995.09.19, CLAIMS, FIG.4	MENT IAL &
			n 1-29 is neither disclosed in any of a nor obvious to a person skilled in the	